

VIII.—*On new British Cladocera discovered by Mr. Conrad Beck in Grasmere Lake, Westmoreland.* By E. RAY LANKESTER, M.A., F.R.S., Jodrell Professor of Zoology in University College, London.

Two years ago I identified *Leptodora hyalina*, Lillj., and *Hyalodaphnia Kahlbergensis*, Schödl., as British Cladocera in specimens sent to me by Mr. Bolton, of Birmingham, who had obtained them from the Olton reservoir near that town.

But few of the remarkable forms of Cladocera which occur in the larger lakes of Continental Europe had previously been recognized as occurring in this country; and it was therefore interesting to establish the occurrence of the two species above named.

The list of British Cladocera has now been extended by the observations of Mr. Conrad Beck, who, during the past summer, examined the Entomostracous fauna of Grasmere Lake, and made careful drawings of the specimens obtained, which he was kind enough to submit to my examination at University College. Mr. Beck has been able to refer the forms observed by him to the following species, three of which are new to British waters; and I may add that I have compared his drawings with the published drawings of these species and can confirm the accuracy of his identifications.

1. *Leptodora hyalina*, Lilljeb. ♂. Taken Sept. 16th.
2. *Hyalodaphnia Kahlbergensis*, Schödl. Abundant, Sept. 9th to 16th.
3. *Holopedium gibberum*, Zaddach. Thirty specimens, each encased in a gelatinous globe, Sept. 7th to 16th.
4. *Latona setifera* ♂ and ♀, Straus (Weissman). Sept. 3rd to 14th.
5. *Bythotrephes*, sp. Sept. 14th. This appears to be a new species, distinct from the *Bythotrephes longimanus* of Leydig.

At the same time, together with these interesting species, hitherto unknown in Britain, Mr. Beck observed and made drawings of the following, already known to Baird as British species, some being of rare occurrence:—*Sida crystallina*, O. F. Müller (Straus genus); *Daphnia vetula*, Müller, and *D. reticulata*, Jurine; *Eurycerus lamellatus*, O. F. Müller (Baird genus); *Alona quadrangularis*, Müller (Baird genus); *Percantha truncata*, Müller (Baird genus).

It appears probable that in lakes where species of the Salmonid *Coregonus* are found, there also will be found the large deep-water Cladocera, such as *Holopedium* and *Bythotrephes*, which serve these fish as food.